

Minutes Ground Water Quality Control Board

**Bartlett City Hall Annex
6382 Stage Road
Conference Room
Bartlett, Tennessee 38134**

Tuesday, May 24, 2016

The Ground Water Quality Control Board for Shelby County met on May 24, 2016, at the Bartlett City Hall Annex, located at 6382 Stage Road. David McCray, Chairman of the Ground Water Quality Control Board, called the meeting to order at 3:10 p.m.

Tim Overly made a motion for approval of the April 21, 2015 minutes. The motion was seconded by Timothy Herndon and passed unanimously.

An appeal by Naval Support Activity (NSA) Mid-South was presented by Ben Brantley with Ensaf, to allow the use of fifteen (15) existing monitoring wells for use as injection wells to be used in the breakdown of the trichloroethylene plume in SWMU 39 and Area of Concern (AOC) A at the NSA Mid-South site located in Millington, Tennessee. The use of these monitoring wells as injection wells will enhance in situ bioremediation of the constituents of concern (COC) in the groundwater at this site.

After a discussion among the Board members a motion to allow the use of fifteen (15) monitoring wells to be used as injection wells for remediation efforts at the site from May 31, 2016 until November 30, 2017 was made by Timothy Herndon. Janet Shipman made a second and the motion passed with all six (6) Board members voting to grant the appeal with the following six (6) permit conditions to be written into the permit to operate these monitoring wells as injection wells during the full scale implementation plan at NSA Mid-South:

1. A letter issued by the State of Tennessee, Department of Environment and Conservation, Division of Water Supply must be submitted to the Board, that verifies the states approval for a the use of Terra Systems SRS-SD & SRS-FR vegetable oil based solution product media for the injection into the groundwater as a remediation technology at this site.
2. Use one (1) well in sub-plume C & D and six (6) wells in sub-plume A in AOC A as well as seven monitoring wells in SWMU 39.
3. The vegetable oil based solution will use one hundred fifty-one (151) gallons of Terra Systems SRS-SD & SRS-FR and twenty thousand one hundred-twelve (2,112) gallons of water in each well in SWMU 39 and sub-plume A, C and D in AOC A. A total of thirty-three thousand nine hundred forty-five (33,945) gallons of Terra Systems SRS-SD & SRS-FI with water will be

injected into the contaminant plumes as a onetime injection process for these wells.

4. Allow Ensafé to oversee the use of fifteen (15) existing monitoring wells to be used as injection wells at the site, with the operational time period being extended for this pilot study until November 30, 2017.
5. The injection wells depth range from seventy-five (75') feet to a maximum depth of ninety-five (95') feet.
6. Ensafé will update the Board at a meeting scheduled for January of 2018 when the full-scale implementation plan is complete as well as notify staff for any proposed changes to the permit.

The next agenda item was a discussion about the potential use of water wells by governmental agencies to measure groundwater in shallow aquifers. Currently, if the United States Geological Survey (USGS) requests on their letterhead that an abandoned well be used for an investigation or to measure groundwater at a site the well can be used for that purpose.

With no further business to be conducted by the Board a motion was made by Tim Overly and seconded by Odell Johnson to adjourn. The meeting adjourned at 4:18 p.m.

Members present:

David McCray, Chairman
Timothy Herndon
Odell Johnson
Tim Overly
Mike Sorensen
Janet Shipman

Members Absent:

Nancy Brannon
Terry Jones, Mayor City of Millington
Scott Morgan
Jerry Olds

Others present:

Greg Parker, Liaison GWQCB
Bard Beaver, NSA Mid-South
Ben Brantley, Resolution Consultants
Jack Carmichael, USGS
Bob Rogers, SCHD
Scott Schoefernacker, GWI